

ABSTRACT OF THE DISCLOSURE

A digital signal available at the output of a filter matched to a spreading code in a spread spectrum receiver comprises successive blocks each corresponding to a sequence of symbols sent by a transmitter. Statistical parameters representing a channel having at least one propagation path between the transmitter and the receiver are estimated, and each block of the digital signal is processed so as to estimate instantaneous amplitudes of reception of the symbols of the corresponding sequence sent by the transmitter. The processing of a block comprises the prior estimation of information symbols of the corresponding sequence, then the estimation of the instantaneous amplitudes as a function of the digital signal of the block, of the estimated statistical parameters, of the symbols of the sequence which are known a priori and of the previously estimated symbols.